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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/518,941	11/21/2005	Paul F Worley	JHU1800-1	3136
28213 DLA PIPER U	7590 03/12/2007 IS LLP		EXAM	INER
4365 EXECUTIVE DRIVE SUITE 1100 SAN DIEGO, CA 92121-2133			SHEN, BIN	
			ART UNIT	PAPER NUMBER
,,		·	1657	
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SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MC	ONTHS	03/12/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/518,941	WORLEY, PAUL	WORLEY, PAUL F			
Office Action Summary	Examiner	Art Unit				
	Bin Shen	1657				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet w	ith the correspondence ad	Idress			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNION (36(a). In no event, however, may a right apply and will expire SIX (6) MON cause the application to become AB	CATION. reply be timely filed ITHS from the mailing date of this c BANDONED (35 U.S.C. § 133).				
Status	,					
1) Responsive to communication(s) filed on 28 De	ecember 2006					
· · · · · · · · · · · · · · · · · · ·	action is non-final.					
· <u> </u>	, —					
· · · · · · · · · · · · · · · · · · ·	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-71</u> is/are pending in the application.						
4a) Of the above claim(s) <u>35-71</u> is/are withdraw						
5) Claim(s) is/are allowed.	in ironi consideration.					
6) Claim(s) 1-34 is/are rejected.						
		•				
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	r election requirement		•			
o) Claim(s) are subject to restriction and/or	election requirement.		•			
Application Papers						
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) □ acce	epted or b) objected to	by the Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correcti	ion is required if the drawing	(s) is objected to. See 37 Cl	FR 1.121(d).			
11) The oath or declaration is objected to by the Ex	aminer. Note the attached	d Office Action or form P1	ГО-152.			
Priority under 35 U.S.C. § 119		•				
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. 8	S-119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, (. , (. , .				
1. Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents		oplication No.				
3. Copies of the certified copies of the prior		· · ——	Stage			
application from the International Bureau	· •		J			
* See the attached detailed Office action for a list of the certified copies not received.						
·						
Attachment(s)	🗂					
1) Motice of References Cited (PTO-892) Description Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date	•			
3) Information Disclosure Statement(s) (PTO/SB/08)	_	nformal Patent Application				
Paper No(s)/Mail Date	6) 🗌 Other:	<u>_</u> .				

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DETAILED ACTION

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The preliminary amendment received 11/21/2005 have been entered.

Election

Applicant's election with traverse of Group I, claims 1-34, in the reply filed on 12/28/2006 is acknowledged. Applicant did not provide any arguments for the traversal.

The requirement is still deemed proper and is therefore made FINAL.

Claims 35-71 are nonelected and thus are withdrawn from further consideration.

Only claims 1-34 are presented for examination on the merits.

Specification

- 1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.
- 2. The abstract of the disclosure is objected to because the abstract must be a single paragraph. Correction is required. See MPEP § 608.01(b). A new abstract on a separate page is required to replace the current abstract, which is the first page of the WO document of the application.
- 3. All references to sequences in specification must include SEQ ID NOs, including Figs. No SEQ ID NOs are included in Fig. 18 and 19 of the drawings.

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Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 1-34 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential steps, such omission amounting to a gap between the steps. See MPEP § 2172.01. Claim 1 is incomplete because it lacks a correlating step to accomplish the preamble of the claim.

All other claims depend directly or indirectly from rejected claims and are, therefore, also rejected under USC 112, second paragraph for the reasons set forth above.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. Claims 1-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Xiao et al. (Current Opinion in Neurobiology 2000;10:370-374) in view of Heitman et al. (Mol Cell Biol1993;13(8):5010-5019).

Xiao teach a role for Homer complexes in signal transduction, synaptogenesis and receptor trafficking (abstract), a method to study Homer complexes by immunoprecipitation.

Xiao does not teach a role of a peptidylproline cis-trans isomerase (PPIase) play in Homer complexes.

Heitman teaches FK506, a PPIase inhibitor inhibits amino acid import into cell including prelines (abstract).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to develop a method to screen for modulating agents of a Homer signaling pathway because Xiao teaches the important role for Homer complexes in signal transduction, synaptogenesis and receptor trafficking (abstract). One would have been motivated to make the modification because Xiao et al. specifically described the interaction between Homer protein and its ligands and Heitman teaches a PPIase inhibitor that inhibits proline import, and would reasonably have expected success in view of Heitman's teaching because the presence of a PPIase inhibitor will ensure the binding specificity between Homer proteins and their ligands. The adjustment of particular conventional screening conditions (e.g., choice of source of Homer protein, choice of different forms of Homer protein ligands) is deemed merely a matter of judicious selection and routine optimization which is Art Unit: 1657

well within the purview of the skilled artisan having the cited reference before him/her.

From the teachings of the references, it is apparent that one of ordinary skill in the art would have had a reasonable expectation of success in producing the claimed invention. Therefore, the invention as a whole was prima facie obvious to one of ordinary skill in the art at the time the invention was made, as evidenced by the references, especially in the absence of evidence to the contrary.

Conclusion

6. No claim is allowed.

Certain papers related to this application may be submitted to Art Unit 1657 by facsimile transmission. The faxing of such papers must conform with the notices published in the Official Gazette, 1156 OG 61 (November 16, 1993) and 1157 OG 94 (December 28, 1993) (see 37 C.F.R. § 1.6(d)). The official fax telephone number for the Group is 571-273-8300. NOTE: If Applicant does submit a paper by fax, the original signed copy should be retained by applicant or applicant's representative. NO DUPLICATE COPIES SHOULD BE SUBMITTED so as to avoid the processing of duplicate papers in the Office.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily

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from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public.

For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

Any inquiry concerning rejections or objections in this communication or earlier communications from the examiner should be directed to Bin Shen, Ph.D., whose telephone number is (571) 272-9040. The examiner can normally be reached on Monday through Friday, from about 9:00 AM to about 5:30 PM. A phone message left at this number will be responded to as soon as possible (i.e., shortly after the examiner returns to her office).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Jon Weber can be reached at (571) 272-0925.

Kleetotter

B Shen
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RALPH GITOMER PRIMARY EXAM